Honeywell

Tactical Advanced Land Inertial Navigator (TALIN™) System

Small, flexible, lightweight, and reliable — The continued evolution of the proven, best-value navigation system for the digital battlefield.

AEROSPACE

Continuous position, pointing, and targeting solutions

The TALIN™ Series provides continuous, self-contained, accurate location and pointing information for improved situational awareness.

System Features

- Flexible tactical configuration for — combat vehicles, target acquisition, main battle tanks, infantry fighting vehicles, mortar systems, and artillery systems
- State-of-the-art plug "N" play sensors facilitate technology upgrades and platform missionizations
- Instant on! — On-the-move alignment
- Multiple accuracy configurations to meet different application requirements
- Selected for use on more than 30 platforms like Bradley FIST, Striker, Bradley A3, Mortar Fire Control System, NLOS, IBCT FIST, IBCT Mortar, USMC CLAWS, Towed Artillery Digitization, Swiss FO, and others.

TALIN™ Series

Flexible, reliable, best-value Inertial Navigation System.

System Characteristics[1]

Parameter	TALIN 500	TALIN 1000	TALIN 2000	TALIN 3000	TALIN 4000	TALIN 5000
Horiz. Pos INU only INU/VMS INU/VMS/GPS PPS INU/VMS/GPS SPS	 1% of DT CEP < 10 m CEP < 60 m CEP	 < 120m CEP 0.8% of DT CEP < 10m CEP < 60m CEP	 < 35m CEP 0.5% of DT CEP < 10m CEP < 60m CEP	 < 25m CEP 0.35% of DT CEP < 10m CEP <60m CEP	 < 18m CEP 0.25% of DT CEP < 10m CEP < 60m CEP	 < 12m CEP 0.20% of DT CEP < 10m CEP < 60m CEP
Vertical Pos INU only INU/VMS INU/VMS/GPS PPS INU/VMS/GPS SPS	 0.6% of DT PE < 10 m PE < 75m PE	 1.0% of DT PE 0.5% of DT PE < 10m PE < 75m PE	 < 30m PE 0.25% of DT PE < 10m PE < 75m PE	 < 16 m PE 0.20% of DT PE < 10m PE < 75m PE	 < 10 m PE 0.15% of DT PE < 10m PE < 75m PE	 < 7m PE 0.10% of DT PE < 10m PE < 75m PE
Heading/Pointing Accuracy (RMS) *Sec (Lat)	< 7 mils RMS	< 7.0 mils or < 6.0 mils*	< 4.0 mils or < 2.0 mils*	< 2.0 mils or < 1.0 mils*	< 1.0 mils or < 0.5 mils*	< 0.7 mils or < 0.35 mils*
Heading Stability (RMS)	N/A	< 0.5 deg/hr	< 0.4 mils/hr	< 0.3 mils/hr	< 0.2 mils/hr	< 0.15 mils/hr
Pitch & Roll Accuracy (RMS)	< 3 mils RMS w/ GPS	< 2.0 mils	< 1.0 mils	< 1.0 mils	< 0.5 mils	< 0.35 mils
Max Alignment Time Static or Gyro Compass Dynamic or "On the Move"	 < 10.0 minutes	 < 10.0 minutes < 12.0 minutes	 < 5.0 minutes < 12.0 minutes	 < 5.0 minutes < 12.0 minutes	 < 10.0 minutes < 16.0 minutes	 < 15.0 minutes < 16.0 minutes

Operating Ranges

- Attitude — Alignment and orientation in any direction
- Angular Rate — +200 deg/sec
- MTBF[2] — > 10,000 - 13,000 hours

Power Requirements

- 18 - 32 Vdc[2] — < 30 watts

Thermal Operating Range

- No cooling required — -46°C to +71°C (-51°F to +160°F)

Navigation Sensors

- Standard — 3-axis inerital sensors (internal), VMS, PLGR
- Optional[2] — GPS with NMEA I/F (external or embedded), magnetic compass

Software

Modular — partitioned for cost-effective system missionization

Interfaces

- Standard — 1553A & B/RS-422/RS-232 serial host interface, PLGR, VMS
- Optional — Additional RS-422/RS-232 data interface, CAN-Bus, GPS antenna, Ethernet

Form Factor

Approx. 6.8 x 5.0 x 8.6 inches (excluding flanges & connectors) (219 x 175 x 127 mm)

Weight

< 15 pounds (< 7kg)

Installation

Can be hard mounted in any orientation

[1] Per definitions in TALIN system specifications
[2] Application and configuration dependent

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